## CLAIMS

An apparatus for positioning an element in a borehole, the apparatus comprising an upper positioning
 means and a lower positioning means for adjusting the plan position of the element at upper and lower levels respectively, wherein the positioning means are joined by means of a connection having an adjustable length.

2. An apparatus as claimed in claim 1, wherein the upper and lower positioning means each comprise a frame that defines an interior space which, when lowered into the borehole, will extend along the longitudinal axis thereof.

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3. An apparatus as claimed in claim 2, wherein the upper and lower positioning means are provided with a guide means for adjusting the plan position of an element within the interior space.

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4. An apparatus as claimed in claim 3, wherein the guide means comprises a first and a second pair of rollers which are moveable in mutually orthogonal directions across the interior space.

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- 5. An apparatus as claimed in any preceding claim, wherein the connection comprises wire ropes.
- An apparatus as claimed in any one of claims 1 to 4,
   wherein the connection comprises chains.
  - 7. An apparatus as claimed in anyone of claims 1 to 4, wherein the connection comprises link arms.

8. An apparatus as claimed in any preceding claim, wherein the connection comprises a pair of arms provided on one of the positioning means which are telescopically received in a pair of conduits provided on the other positioning means.

- 9. A method of positioning an element in a borehole, the method comprising the steps of:
- i) placing into the borehole an apparatus comprising an upper positioning means and a lower positioning means for adjusting the plan position of the element at upper and lower levels respectively, wherein the positioning means are joined by means of a connection having an
- 15 adjustable length;

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- ii) lowering the element into an interior space defined by the apparatus to a required depth within the borehole; and
- iii) adjusting the upper and lower positioning means to 20 achieve the desired plan position and orientation of the element.
- 10. A method as claimed in claim 9, wherein before placing the apparatus into the borehole, a temporary shaft lining tube is placed within the borehole.
  - 11. A method as claimed in claim 10, wherein the orientation of the apparatus is fixed relative to the temporary casing by means of a plurality of locking rams.

## **AMENDED CLAIMS**

[Received by the International Bureau on 16 August 2004 (16.08.2004); original claims 1 and 2 replaced by amended claims 1 and 2, original claims 3-11 unchanged (2 pages)]

## CLAIMS

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- 1. An apparatus for positioning an element in a borehole, the apparatus comprising an upper positioning means and a lower positioning means for adjusting the plan position of the element at upper and lower levels respectively, wherein the positioning means are joined by means of a connection having an adjustable length, and wherein the apparatus defines an interior space into which, in use, the element is lowered.
- An apparatus as claimed in claim 1, wherein the upper and lower positioning means each comprise a frame, the frames defining the interior space into which, in use, the element is lowered.
  - 3. An apparatus as claimed in claim 2, wherein the upper and lower positioning means are provided with a guide means for adjusting the plan position of an element within the interior space.
  - 4. An apparatus as claimed in claim 3, wherein the guide means comprises a first and a second pair of rollers which are moveable in mutually orthogonal directions across the interior space.
  - 5. An apparatus as claimed in any preceding claim, wherein the connection comprises wire ropes.
- 30 6. An apparatus as claimed in any one of claims 1 to 4, wherein the connection comprises chains.

7. An apparatus as claimed in anyone of claims 1 to 4, wherein the connection comprises link arms.

- 8. An apparatus as claimed in any preceding claim,

  5 wherein the connection comprises a pair of arms
  provided on one of the positioning means which are
  telescopically received in a pair of conduits provided
  on the other positioning means.
- 9. A method of positioning an element in a borehole, the method comprising the steps of:
  - i) placing into the borehole an apparatus comprising an upper positioning means and a lower positioning means for adjusting the plan position of the element at upper
- 15 and lower levels respectively, wherein the positioning means are joined by means of a connection having an adjustable length;
  - ii) lowering the element into an interior space defined by the apparatus to a required depth within the
- 20 borehole; and iii) adjusting the upper and lower positioning means to achieve the desired plan position and orientation of
- 25 10. A method as claimed in claim 9, wherein before placing the apparatus into the borehole, a temporary shaft lining tube is placed within the borehole.

the element.

11. A method as claimed in claim 10, wherein the
30 orientation of the apparatus is fixed relative to the
temporary casing by means of a plurality of locking
rams.